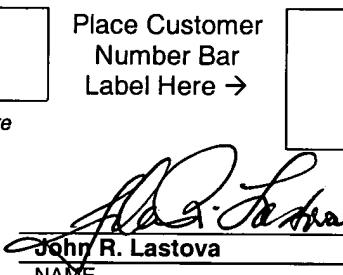
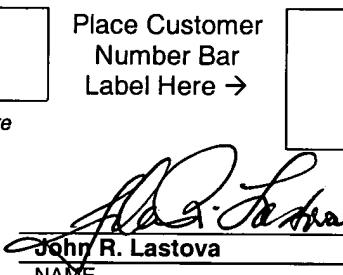
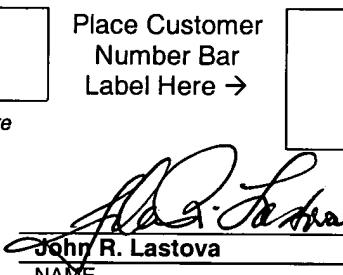


FORM PTO-1390 MODIFIED	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 4147-90
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) 106509996	
INTERNATIONAL APPLICATION NO. PCT/SE03/00458	INTERNATIONAL FILING DATE 19 March 2003	PRIORITY DATE CLAIMED 11 April 2002	
TITLE OF INVENTION DIAGONALLY LAYERED MULTI-ANTENNA TRANSMISSION FOR FREQUENCY SELECTIVE CHANNELS			
APPLICANT(S) FOR DO/EO/US Tobias Tynderfeldt			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<ol style="list-style-type: none"> <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. <input checked="" type="checkbox"/> The U.S. has been elected by the expiration of 19 months from the priority date (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <input checked="" type="checkbox"/> is attached hereto (11 pages specification, claims & abstract (20 claims), 5 sheets drawings). <input checked="" type="checkbox"/> has been communicated by the International Bureau. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <input type="checkbox"/> An English language translation <ol style="list-style-type: none"> <input type="checkbox"/> of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (pages specification, claims & abstract (claims), sheets drawings, page Certificate of Translation). <input type="checkbox"/> of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. § 371(c)(5)). <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). <input type="checkbox"/> have been communicated by the International Bureau. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. <input type="checkbox"/> have not been made and will not be made. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). a. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <ol style="list-style-type: none"> <input type="checkbox"/> Declaration was submitted to the International Bureau during International Phase (see copies of Declaration (Form PCT/RO/101 and Form PCT/IB/371 and first page of printed publication acknowledging receipt thereof attached). page See item 6.b. above. <p>Items 11 To 20 below concern document(s) or information included:</p> <ol style="list-style-type: none"> <input type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. <input type="checkbox"/> A substitute specification. <input type="checkbox"/> A change of power of attorney and/or address letter. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). <input checked="" type="checkbox"/> Other items or information. International Search Report, Abstract on separate page and PTO 1449 			

DT05 Rec'd PCT/PTO 05 OCT 2004

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) 104509996 to be assigned	INTERNATIONAL APPLICATION NO. PCT/SE03/00458	ATTORNEY'S DOCKET NUMBER 4147-90																																																																												
21. <input checked="" type="checkbox"/> The following fees are submitted:		CALCULATIONS PTO USE ONLY																																																																												
BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5)): <ul style="list-style-type: none"> -- Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1110.00 -- International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$950.00 -- International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO \$790.00 -- International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$750.00 -- International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00 																																																																														
ENTER APPROPRIATE BASIC FEE AMOUNT = <input type="text" value="1110.00"/>																																																																														
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)). <input type="text" value="0.00"/>																																																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">CLAIMS</th> <th style="width: 25%;">NUMBER FILED</th> <th style="width: 25%;">NUMBER EXTRA</th> <th style="width: 25%;">RATE</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>20</td> <td>minus 20 =</td> <td>0 X \$18.00</td> </tr> <tr> <td>Independent Claims</td> <td>2</td> <td>minus 3 =</td> <td>0 X \$88.00</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIMS(S) (if applicable)</td> <td></td> <td>\$300.00</td> </tr> <tr> <td colspan="2">Petition is hereby made to extend the current due date so as to cover the filing date of this paper and attachment(s) (\$110.00/1 month; \$430.00/2 months; \$980.00/3 months)</td> <td></td> <td>\$0.00</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 1110.00</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.</td> <td></td> <td>0.00</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;">SUBTOTAL =</td> <td>\$ 1110.00</td> </tr> <tr> <td colspan="2">Processing fee of \$130.00, for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)). +</td> <td></td> <td>0.00</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;">TOTAL NATIONAL FEE =</td> <td>\$ 1110.00</td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +</td> <td></td> <td>40.00</td> </tr> <tr> <td colspan="2">Fee for Petition to Revive Unintentionally Abandoned Application (\$1370.00 - Small Entity = \$685.00)</td> <td></td> <td>0.00</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;">TOTAL FEES ENCLOSED =</td> <td>\$ 1150.00</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;">Amount to be: refunded <input type="checkbox"/> \$ <input type="text"/> Charged <input type="checkbox"/> \$ <input type="text"/></td> <td></td> </tr> <tr> <td colspan="4"> <p>a. <input checked="" type="checkbox"/> A check in the amount of \$1150.00 to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 14-1140 in the amount of \$ <input type="text"/> to cover the above fees. A duplicate copy of this form is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A <u>duplicate</u> copy of this form is enclosed.</p> <p>d. <input checked="" type="checkbox"/> The entire content of International Application No. PCT/SE03/00458 and any U.S. and foreign application(s) corresponding thereto, and <input type="text"/>, referred to in this application is/are hereby incorporated by reference in this application.</p> </td> </tr> <tr> <td colspan="4"> <p>NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>CORRESPONDENCE ADDRESS Direct all correspondence to:</p> </td> </tr> <tr> <td colspan="2"> <input checked="" type="checkbox"/> Customer Number: <input type="text" value="23117"/> </td> <td style="text-align: center; vertical-align: top;"> <input type="text"/> Type Customer Number here </td> <td style="text-align: center; vertical-align: top;"> Place Customer Number Bar Label Here → <input type="text"/> </td> </tr> <tr> <td colspan="4" style="text-align: center;">  John R. Lastova NAME </td> </tr> <tr> <td colspan="2"> Telephone: (703) 816-4000 JRL:at </td> <td colspan="2"> 33,149 REGISTRATION NUMBER Date </td> </tr> </tbody></table>			CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total Claims	20	minus 20 =	0 X \$18.00	Independent Claims	2	minus 3 =	0 X \$88.00	MULTIPLE DEPENDENT CLAIMS(S) (if applicable)			\$300.00	Petition is hereby made to extend the current due date so as to cover the filing date of this paper and attachment(s) (\$110.00/1 month; \$430.00/2 months; \$980.00/3 months)			\$0.00			TOTAL OF ABOVE CALCULATIONS =	\$ 1110.00	<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.			0.00			SUBTOTAL =	\$ 1110.00	Processing fee of \$130.00, for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)). +			0.00			TOTAL NATIONAL FEE =	\$ 1110.00	Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +			40.00	Fee for Petition to Revive Unintentionally Abandoned Application (\$1370.00 - Small Entity = \$685.00)			0.00			TOTAL FEES ENCLOSED =	\$ 1150.00			Amount to be: refunded <input type="checkbox"/> \$ <input type="text"/> Charged <input type="checkbox"/> \$ <input type="text"/>		<p>a. <input checked="" type="checkbox"/> A check in the amount of \$1150.00 to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 14-1140 in the amount of \$ <input type="text"/> to cover the above fees. A duplicate copy of this form is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A <u>duplicate</u> copy of this form is enclosed.</p> <p>d. <input checked="" type="checkbox"/> The entire content of International Application No. PCT/SE03/00458 and any U.S. and foreign application(s) corresponding thereto, and <input type="text"/>, referred to in this application is/are hereby incorporated by reference in this application.</p>				<p>NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>CORRESPONDENCE ADDRESS Direct all correspondence to:</p>				<input checked="" type="checkbox"/> Customer Number: <input type="text" value="23117"/>		<input type="text"/> Type Customer Number here	Place Customer Number Bar Label Here → <input type="text"/>	 John R. Lastova NAME				Telephone: (703) 816-4000 JRL:at		33,149 REGISTRATION NUMBER Date	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																																																																											
Total Claims	20	minus 20 =	0 X \$18.00																																																																											
Independent Claims	2	minus 3 =	0 X \$88.00																																																																											
MULTIPLE DEPENDENT CLAIMS(S) (if applicable)			\$300.00																																																																											
Petition is hereby made to extend the current due date so as to cover the filing date of this paper and attachment(s) (\$110.00/1 month; \$430.00/2 months; \$980.00/3 months)			\$0.00																																																																											
		TOTAL OF ABOVE CALCULATIONS =	\$ 1110.00																																																																											
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.			0.00																																																																											
		SUBTOTAL =	\$ 1110.00																																																																											
Processing fee of \$130.00, for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)). +			0.00																																																																											
		TOTAL NATIONAL FEE =	\$ 1110.00																																																																											
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +			40.00																																																																											
Fee for Petition to Revive Unintentionally Abandoned Application (\$1370.00 - Small Entity = \$685.00)			0.00																																																																											
		TOTAL FEES ENCLOSED =	\$ 1150.00																																																																											
		Amount to be: refunded <input type="checkbox"/> \$ <input type="text"/> Charged <input type="checkbox"/> \$ <input type="text"/>																																																																												
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$1150.00 to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 14-1140 in the amount of \$ <input type="text"/> to cover the above fees. A duplicate copy of this form is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A <u>duplicate</u> copy of this form is enclosed.</p> <p>d. <input checked="" type="checkbox"/> The entire content of International Application No. PCT/SE03/00458 and any U.S. and foreign application(s) corresponding thereto, and <input type="text"/>, referred to in this application is/are hereby incorporated by reference in this application.</p>																																																																														
<p>NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>CORRESPONDENCE ADDRESS Direct all correspondence to:</p>																																																																														
<input checked="" type="checkbox"/> Customer Number: <input type="text" value="23117"/>		<input type="text"/> Type Customer Number here	Place Customer Number Bar Label Here → <input type="text"/>																																																																											
 John R. Lastova NAME																																																																														
Telephone: (703) 816-4000 JRL:at		33,149 REGISTRATION NUMBER Date																																																																												

Telephone: (703) 816-4000
JRI :at

23117

Type Customer Number here

Place Customer
Number Bar
Label Here →

John R. Lastova
NAME

33,149

October 5, 2004

REGISTRATION NUMBER

Date